

Rotary brush device and vacuum cleaner using the same**Patent number:** EP0947155**Publication date:** 1999-10-06**Inventor:** NISHIMURA HIROSHI (JP); HAYASHI SEIZO (JP)**Applicant:** MATSUSHITA ELECTRIC IND CO LTD (JP)**Classification:**

- international: A47L9/04; A47L5/30; A47L9/28

- european: A47L9/28B2, A47L9/28B4, A47L9/04, A47L5/28, A47L5/30, A47L9/02, A47L9/28, A47L9/28B

Application number: EP19990106662 19990401**Priority number(s):** US19980055020 19980403**Also published as:**

EP0947155 (A3)

Cited documents:

GB370645

GB293319

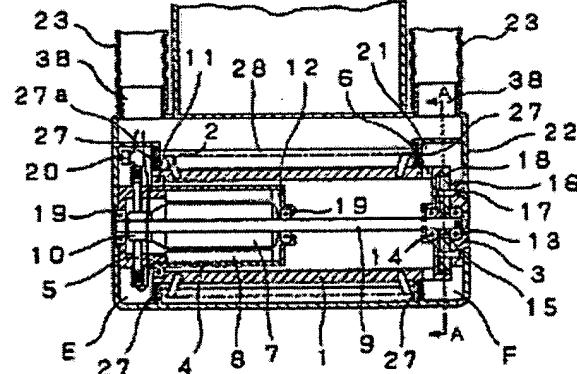
GB668631

US3172138

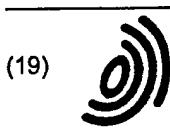
US4384386

[more >>](#)**Abstract of EP0947155**

A motor is incorporated in a cylindrical body which is a rotary brush. Rotation of a rotor of the motor, directly or via a speed reduction mechanism, drives the rotary brush. Cooling air runs through the cylindrical body so that the motor is cooled and protected. The rotary brush and an electric apparatus using the rotary brush can be downsized and easily.



Data supplied from the **esp@cenet** database - Worldwide



(19)

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 947 155 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
20.02.2002 Bulletin 2002/08

(51) Int Cl.7: A47L 9/04, A47L 5/30,
A47L 9/28

(43) Date of publication A2:
06.10.1999 Bulletin 1999/40

(21) Application number: 99106662.2

(22) Date of filing: 01.04.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 03.04.1998 US 55020

(71) Applicant: Matsushita Electric Industrial Co., Ltd.
Kadoma-shi, Osaka 571-8501 (JP)

(72) Inventors:

- Nishimura, Hiroshi
Gamo-gun, Shiga 529-1535 (JP)
- Hayashi, Seizo
Omihachiman-shi, Shiga 523-0892 (JP)

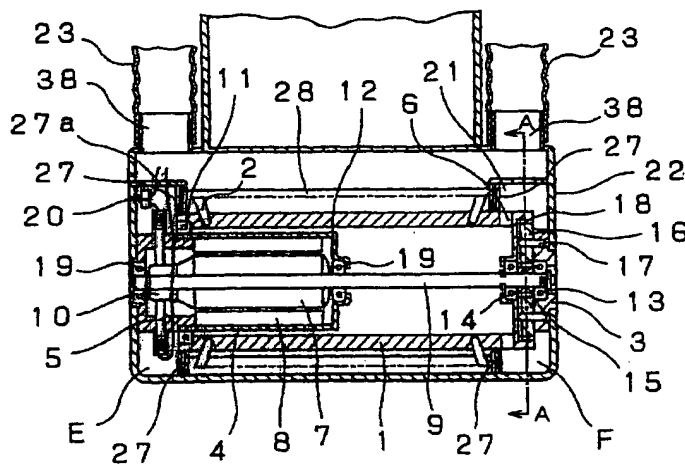
(74) Representative: Kügele, Bernhard et al
NOVAPAT INTERNATIONAL SA, 9, Rue du Valais
1202 Genève (CH)

(54) Rotary brush device and vacuum cleaner using the same

(57) A motor is incorporated in a cylindrical body which is a rotary brush. Rotation of a rotor of the motor, directly or via a speed reduction mechanism, drives the

rotary brush. Cooling air runs through the cylindrical body so that the motor is cooled and protected. The rotary brush and an electric apparatus using the rotary brush can be downsized and easily.

Fig. 2



EP 0 947 155 A3